



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Sunshine Windows Manufacturing, Inc.

1745 W. 33rd Place

Hialeah, FL 33012

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.-

DESCRIPTION: Series "1650 (XO)" Aluminum Horizontal Sliding Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **HS08-01**, titled "Series 1650 Aluminum Horizontal Sliding Window (XO) Impact Resistant Glass", sheets 1 through 7 of 7, dated 03/14/08, with revision **3** dated 09/04/17, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA No. **14-1204.11** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



Handwritten signature
12/15/17

NOA No. 17-1017.06

Expiration Date: April 10, 2019

Approval Date: December 21, 2017

Page 1

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 08-0107.08)
2. Drawing No. **HS08-01**, titled "Series 1650 Aluminum Horizontal Sliding Window (XO) Impact Resistant Glass", sheets 1 through 7 of 7, dated 03/14/08, with revision 2 dated 11/18/14, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-5331**, dated 09/18/07 and **FTL-5015**, dated 07/27/07, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA No. 08-0107.08)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, prepared by manufacturer, dated 11/09/14, signed and sealed by Francisco Hernandez, P.E.
2. Glazing complies with **ASTM E1300-04/09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their "**Butacite® PVB Glass Interlayer**" dated 04/25/15, expiring on 12/11/16.



Manuel Perez, P.E.
Product Control Examiner
NOA No. 17-1017.06

Expiration Date: April 10, 2019
Approval Date: December 21, 2017

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014)** and of no financial interest, dated 11/10/14, signed and sealed by Francisco Hernandez, P.E.
2. Statement letter of conformance, complying with **FBC-2010** and of no financial interest, dated 03/12/12, signed and sealed by Francisco Hernandez, P. E.
(Submitted under NOA No. 12-0320.06)
3. Laboratory compliance letter for Test Reports No. **FTL-5331**, dated 09/18/07 and **FTL-5015**, dated 07/27/07, issued by Fenestration Testing Laboratory, Inc., signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA No. 08-0107.08)

G. OTHERS

1. Notice of Acceptance No. **12-0320.06**, issued to Sunshine Windows Manufacturing, Inc. for their Series "1650" Aluminum Horizontal Sliding Window – L.M.I., approved on 05/17/12 and expiring on 04/10/18.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **HS08-01**, titled "Series 1650 Aluminum Horizontal Sliding Window (XO) Impact Resistant Glass", sheets 1 through 7 of 7, dated 03/14/08, with revision No. 3 dated 09/04/17, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E.

B. TESTS

1. None

C. CALCULATIONS

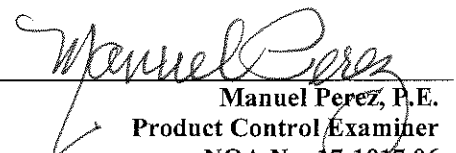
1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 01/19/17, expiring on 07/08/19.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 17-1017.06
Expiration Date: April 10, 2019
Approval Date: December 21, 2017

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, dated September 10, 2017, signed and sealed by Francisco Hernandez, P.E.
2. Proposal No. **17-0539R2** issued by the Miami-Dade County Product Control Section, dated 12/07/17, signed by Manuel Perez, P.E.
3. Email from manufacturer requesting a 1-year extension to allow time to perform verification test, dated 12/15/17, signed by Noel Martinez, Assistant Manager, Sunshine Windows Mfg. Inc.

G. OTHERS

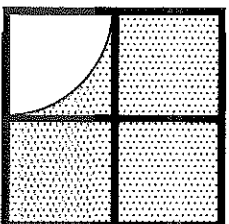
1. Notice of Acceptance No. **14-1204.11**, issued to Sunshine Windows Manufacturing, Inc. for their Series "1650 (XO)" Aluminum Horizontal Sliding Window – L.M.I.", approved on 05/14/15 and expiring on 04/10/18.
2. One year approval, subjected to successful verification test.


Manuel Perez, P.E.
Product Control Examiner

NOA No. 17-1017.06

Expiration Date: April 10, 2019

Approval Date: December 21, 2017



Sunshine Windows
Manufacturing, Inc.

1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)364-9952
Fax: (305)828-5118

SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (XO)
IMPACT RESISTANT GLASS

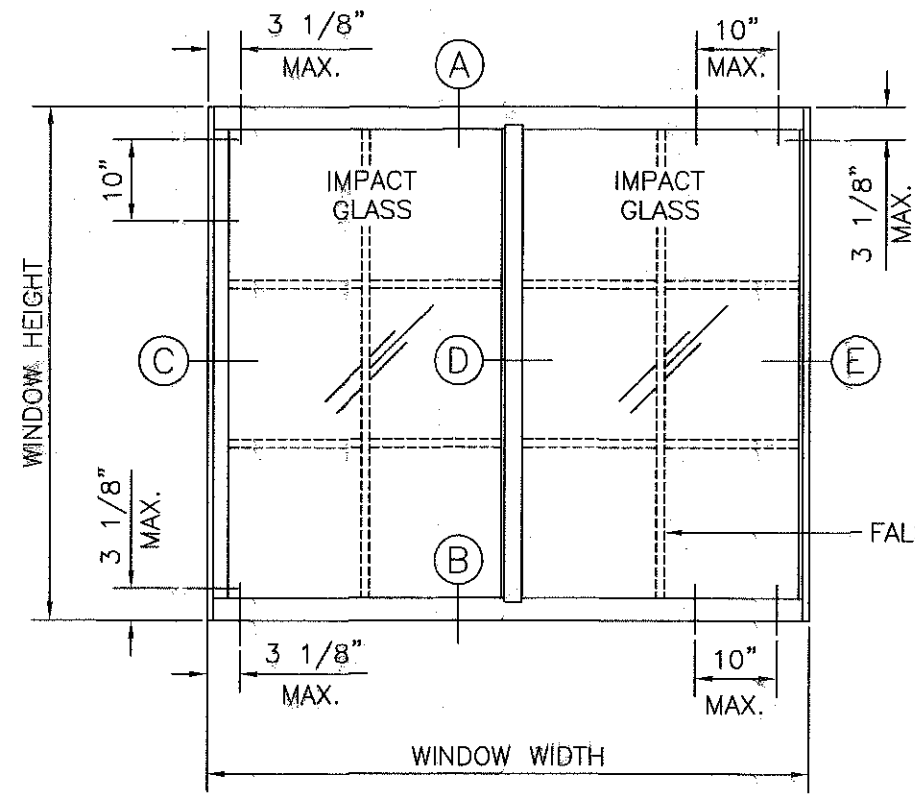
| NO | DATE | REVISION |
|----|----------|--|
| 1 | 03-05-12 | UPDATED FOR 2010 FBC |
| 2 | 11-18-14 | REVISION IN COMPLIANCE WITH FBC 5TH EDITION (2014) |
| 3 | 09-04-17 | REVISION IN COMPLIANCE WITH FBC 6TH EDITION (2017) |

DRAWING No.
HS08-01
DATE: 03-14-08
SCALE: 1/2"=1"
SHEET 1 OF 7

DESIGN PRESSURES CHART - PSF

HEAT STRENGTHENED LAMINATED IMPACT
RESISTANT GLASS

| WINDOW DIMENSION | | ANCHOR SCHEDULE | | HURRICANE PROTECTION IS NOT REQUIRED | | | |
|----------------------------------|---------|-----------------------|-------------|---|--------|---------|--------|
| | | | | 1 3/4" SILL | | 3" SILL | |
| WIDTH | HEIGHT | PER HEAD & SILL | PER JAMB | EXT. | INT. | EXT. | INT. |
| 26 1/2" 37" 53 1/8" 74" | 26" | 4 | 3 | 53.33 | 120.00 | 80.00 | 120.00 |
| | | 5 | | 53.33 | 120.00 | 80.00 | 120.00 |
| | | 6 | | 53.33 | 119.30 | 80.00 | 119.3 |
| | | 8 | | 53.33 | 90.0 | 80.00 | 90.00 |
| 26 1/2" 37" 53 1/8" 74" | 38 3/8" | 4 | 5 | 53.33 | 120.0 | 80.00 | 120.00 |
| | | 5 | | 53.33 | 120.0 | 80.00 | 120.00 |
| | | 6 | | 53.33 | 95.50 | 80.00 | 95.50 |
| | | 8 | | 53.33 | 78.90 | 78.90 | 78.90 |
| 37" 53 1/8" 74" | 50 5/8" | 5 | 6 | 53.33 | 104.70 | 80.00 | 104.70 |
| | | 6 | | 53.33 | 88.40 | 80.00 | 88.40 |
| | | 8 | | 53.33 | 67.30 | 67.30 | 67.30 |
| | | 5 | 7 | 53.33 | 88.20 | 80.00 | 88.20 |
| 53 1/8" 74" | 63" | 6 | | 53.33 | 75.00 | 75.00 | 75.00 |
| | | 8 | | 53.33 | 62.00 | 62.00 | 62.00 |
| 24" 36" 48" 60" 72" | 24" | 3 | 3 | 53.33 | 120.0 | 80.00 | 120.0 |
| | | 4 | | 53.33 | 120.0 | 80.00 | 120.0 |
| | | 6 | | 53.33 | 120.0 | 80.00 | 120.0 |
| | | 7 | | 53.33 | 120.00 | 80.00 | 120.0 |
| 24" 36" 48" 60" 72" | 36" | 8 | 4 | 53.33 | 90.00 | 80.00 | 90.00 |
| | | 3 | | 53.33 | 120.00 | 80.00 | 120.0 |
| | | 4 | | 53.33 | 120.00 | 80.00 | 120.0 |
| | | 6 | | 53.33 | 120.00 | 80.00 | 120.0 |
| 36" 48" 60" 72" | 48" | 7 | 6 | 53.33 | 99.90 | 80.00 | 99.90 |
| | | 8 | | 53.33 | 88.60 | 80.00 | 88.60 |
| | | 4 | | 53.33 | 100.40 | 80.00 | 100.40 |
| | | 6 | | 53.33 | 93.90 | 80.00 | 93.90 |
| 36" 48" 60" 72" | 60" | 7 | 7 | 53.33 | 87.00 | 80.00 | 87.00 |
| | | 8 | | 53.33 | 74.30 | 74.30 | 74.30 |
| | | 4 | | 53.33 | 90.00 | 80.00 | 90.00 |
| | | 6 | | 53.33 | 87.00 | 80.0 | 87.00 |
| 60" 72" | 60" | 7 | 7 | 53.33 | 83.40 | 80.0 | 83.40 |
| | | 8 | | 53.33 | 67.80 | 67.80 | 67.80 |



TYPICAL ELEVATION (XO)

WIND LOAD A.S.D. FACTOR NOTE:

THE DESIGN PRESSURES SHOWN ON THESE CHARTS
ARE FOR ALLOWABLE STRESS DESIGN. FOR WIND
LOADS CALCULATED BASED ON "ULTIMATE WIND
SPEED" AS DETERMINED FROM ASCE 7-10 OR
IBC 2015 THE VALUES SHOWN ON THE TABLES
SHALL BE MULTIPLIED BY 0.6.

FALSE MUNTINS (SURFACE APPLIED)
MAY BE USED

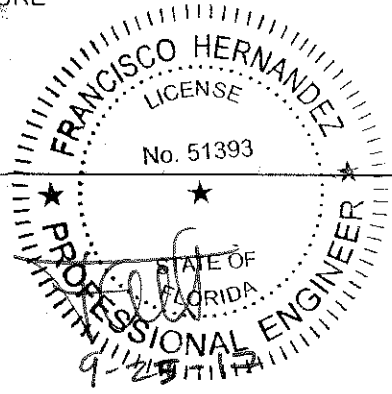
GENERAL NOTES:

- 1.- THIS PRODUCT MEETS THE REQUIREMENTS OF FBC 5TH EDITION (2014) AND FBC 6TH EDITION (2017).
- 2.- CONFIGURATIONS OX AND XO.
- 3.- SHUTTERS ARE NOT REQUIRED.
- 4.- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURES CHART.
- 5.- FOR ANCHOR TYPE AND SPACING REFER TO TYPICAL ELEVATIONS AND SECTIONS ON SHEET 5 THRU 7.
- 6.- CONCRETE / MASONRY STRUCTURE FOR UNIT ATTACHMENT SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - CONCRETE STRENGTH $F_c'28 = 3000$ PSI MIN.
 - CMU AS PER ASTM C90. CMU MUST BE 8-INCH THICK, NORMAL WEIGHT BLOCKS WITH A MINIMUM COMPRESSIVE STRENGTH OF 1.9 KSI.
 - FILLED CMU $F_m' = 2000$ PSI MIN.
- 7.- USE NON-SHRINK, NON-METALIC HYDRAULIC CEMENT GROUT PER ASTM C1107/C1107M STANDARD SPECIFICATION FOR PACKAGED DRY.
- 8.- WOOD HOST STRUCTURE SHALL BE "SOUTHERN YELLOW PINE" $G = 0.55$ OR GREATER DENSITY.
- 9.- STEEL HOST STRUCTURE SHALL NOT BE LESS THAN 18 GAUGE. STEEL SHALL BE $F_y = 36$ KSI MIN.
- 10.- THE THICKNESS OF THE ALUMINUM HOST STRUCTURE SHALL NOT BE LESS THAN 1/8". ALUMINUM SHALL BE 6063-T6.
- 11.- 1X OR 2X WOOD BUCKS NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL SHALL BE PROPERLY ATTACHED TO SUSTAIN AND TRANSFER THE LOADS IMPOSED BY THE GLAZING SYSTEM TO THE STRUCTURE AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
- 12.- ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN FBC 6TH EDITION (2017).

GLASS:

0.340" OVERALL LAMINATED GLASS USING TWO LITES OF
0.125" HEAT STRENGTHENED GLASS WITH A 0.090" INTERLAYER
FILM DUPONT BUTACITE PVB, BETWEEN THE TWO LITES OF GLASS,
LAMINATED BY TECNOGLASS OR SIMILAR.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1017.06
Expiration Date April 10, 2019
By *Manuel Perez*
Miami Code Product Control

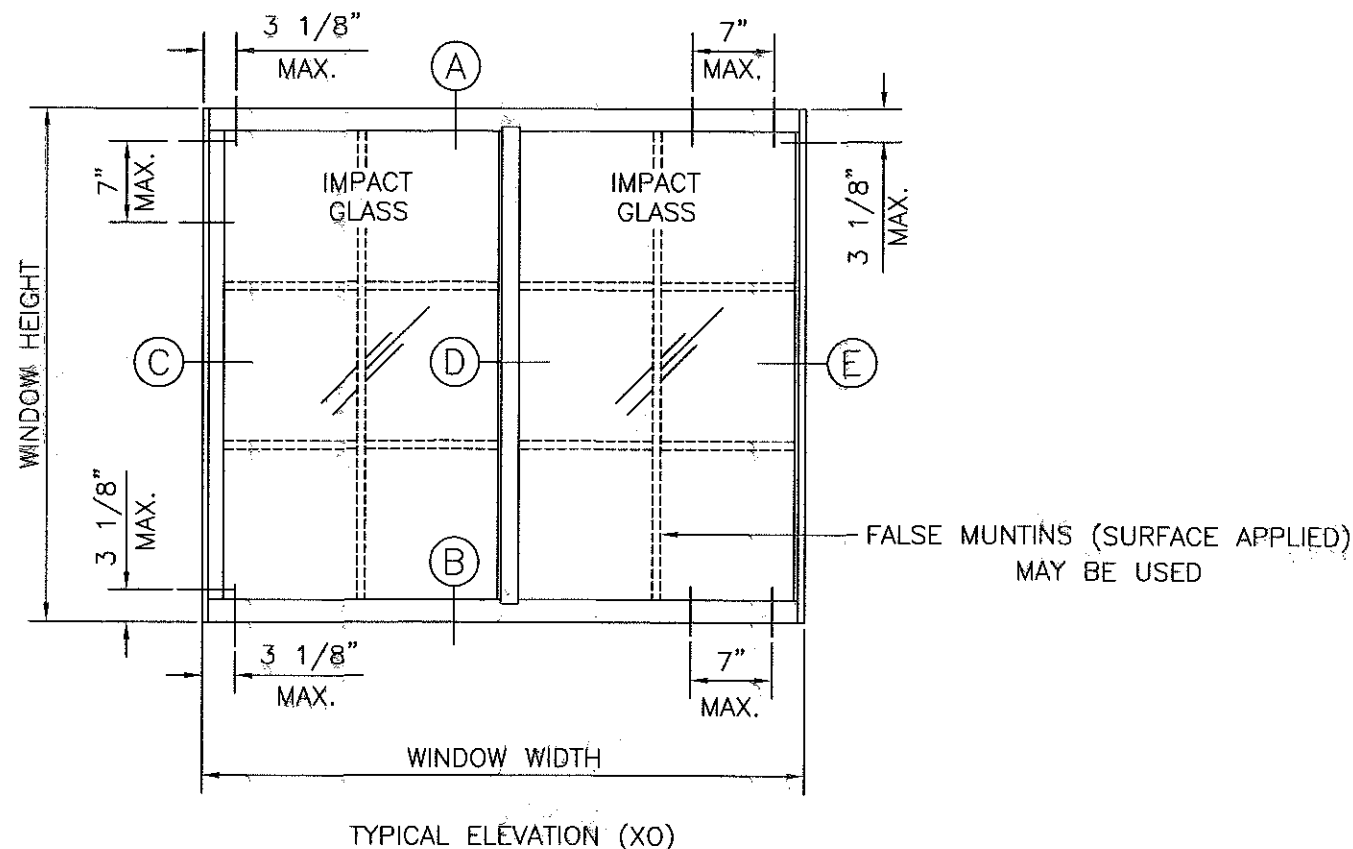


FRANCISCO HERNANDEZ
FLORIDA PE # 51393

| DESIGN PRESSURES CHART - PSF | | | | | | | | |
|--|---------|-----------------|----------|--------------------------------------|-------|---------|-------|--|
| HEAT STRENGTHENED LAMINATED IMPACT RESISTANT GLASS | | | | | | | | |
| WINDOW DIMENSION | | ANCHOR SCHEDULE | | HURRICANE PROTECTION IS NOT REQUIRED | | | | |
| WIDTH | HEIGHT | PER HEAD & SILL | PER JAMB | 1 3/4" SILL | | 3" SILL | | |
| | | | | EXT. | INT. | EXT. | INT. | |
| 74" | 38 3/8" | 11 | 6 | 53.33 | 90.00 | 80.00 | 90.00 | |
| 74" | 50 5/8" | 11 | 8 | 53.33 | 90.00 | 80.00 | 90.00 | |
| 37" | 63" | 6 | 9 | 53.33 | 90.00 | 80.00 | 90.00 | |
| 53 1/8" | | 8 | | 53.33 | 90.00 | 80.00 | 90.00 | |
| 74" | | 11 | | 53.33 | 85.20 | 80.00 | 85.20 | |
| 72" | 48" | 11 | 7 | 53.33 | 90.00 | 80.00 | 90.00 | |
| 48" | 60" | 7 | 9 | 53.33 | 90.00 | 80.00 | 90.00 | |
| 60" | | 9 | | 53.33 | 90.00 | 80.00 | 90.00 | |
| 72" | | 11 | | 53.33 | 90.00 | 80.00 | 90.00 | |

WIND LOAD A.S.D. FACTOR NOTE:

THE DESIGN PRESSURES SHOWN ON THESE CHARTS ARE FOR ALLOWABLE STRESS DESIGN. FOR WIND LOADS CALCULATED BASED ON "ULTIMATE WIND SPEED" AS DETERMINED FROM ASCE 7-10 OR IBC 2015 THE VALUES SHOWN ON THE TABLES SHALL BE MULTIPLIED BY 0.6.



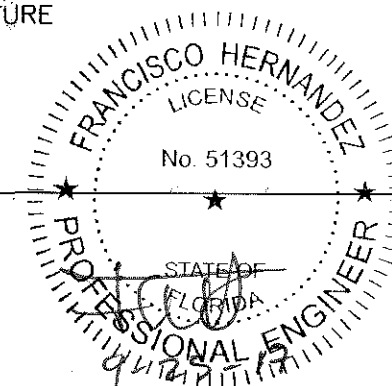
GENERAL NOTES:

- 1.- THIS PRODUCT MEETS THE REQUIREMENTS OF FBC 5TH EDITION (2014) AND FBC 6TH EDITION (2017).
- 2.- CONFIGURATIONS OX AND XO.
- 3.- SHUTTERS ARE NOT REQUIRED.
- 4.- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURES CHART.
- 5.- FOR ANCHOR TYPE AND SPACING REFER TO TYPICAL ELEVATIONS AND SECTIONS ON SHEET 5 THRU 7.
- 6.- CONCRETE / MASONRY STRUCTURE FOR UNIT ATTACHMENT SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - CONCRETE STRENGTH $F_c'28 = 3000$ PSI MIN.
 - CMU AS PER ASTM C90. CMU MUST BE 8-INCH THICK, NORMAL WEIGHT BLOCKS WITH A MINIMUM COMPRESSIVE STRENGTH OF 1.9 KSI.
 - FILLED CMU $F_m' = 2000$ PSI MIN.
- 7.- USE NON-SHRINK, NON-METALIC HYDRAULIC CEMENT GROUT PER ASTM C1107/C1107M STANDARD SPECIFICATION FOR PACKAGED DRY.
- 8.- WOOD HOST STRUCTURE SHALL BE "SOUTHERN YELLOW PINE" $G = 0.55$ OR GREATER DENSITY.
- 9.- STEEL HOST STRUCTURE SHALL NOT BE LESS THAN 18 GAUGE, STEEL SHALL BE $F_y = 36$ KSI MIN.
- 10.- THE THICKNESS OF THE ALUMINUM HOST STRUCTURE SHALL NOT BE LESS THAN 1/8". ALUMINUM SHALL BE 6063-T6.
- 11.- 1X OR 2X WOOD BUCKS NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL SHALL BE PROPERLY ATTACHED TO SUSTAIN AND TRANSFER THE LOADS IMPOSED BY THE GLAZING SYSTEM TO THE STRUCTURE AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
- 12.- ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN FBC 6TH EDITION (2017).

GLASS:

0.340" OVERALL LAMINATED GLASS USING TWO LITES OF 0.125" HEAT STRENGTHENED GLASS WITH A 0.090" INTERLAYER FILM DUPONT BUTACITE PVB, BETWEEN THE TWO LITES OF GLASS. LAMINATED BY TECNOGLASS OR SIMILAR.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1017-06
Expiration Date April 16, 2019
By *Manuel Perez*
Miami Dade Product Control



FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Sunshine Windows
Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)364-9952
Fax: (305)828-5118

SERIES 1650 ALUMINUM HORIZONTAL SLIDING WINDOW (XO) IMPACT RESISTANT GLASS

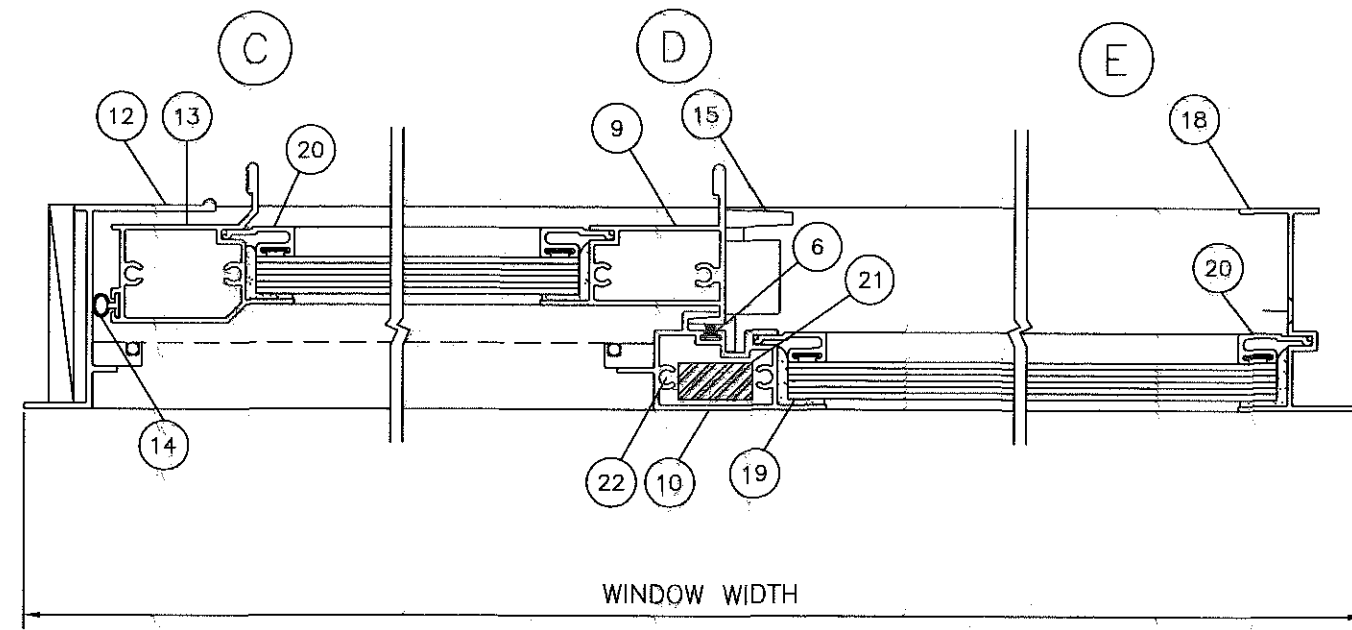
| REVISION | DATE | DESCRIPTION |
|----------|----------|--|
| 1 | 03-05-12 | UPDATED FOR 2010 FBC |
| 2 | 11-18-14 | REVISION IN COMPLIANCE WITH FBC 5TH EDITION (2014) |
| 3 | 09-04-17 | REVISION IN COMPLIANCE WITH FBC 6TH EDITION (2017) |

DRAWING No.
HS08-01

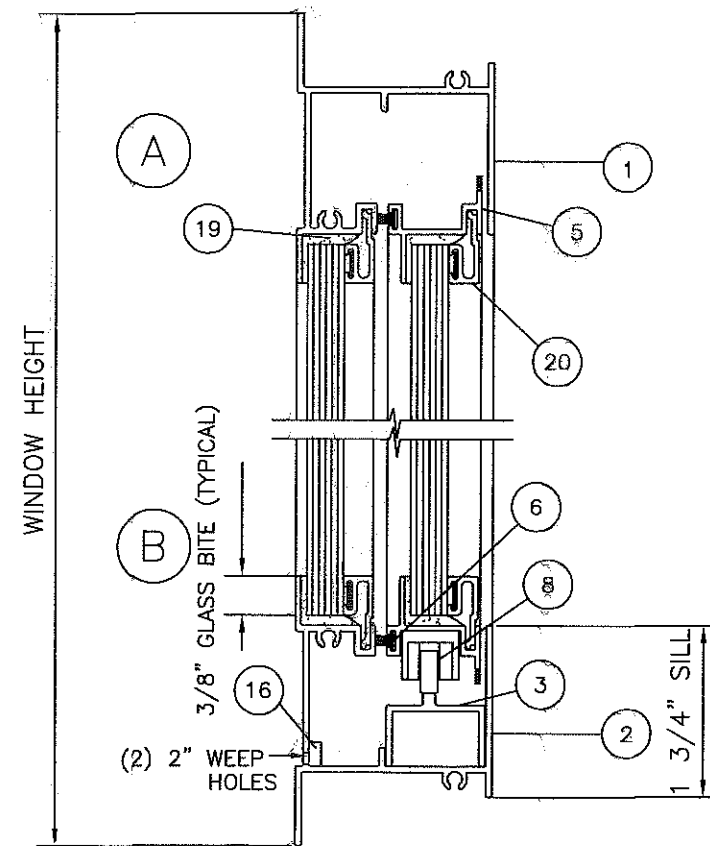
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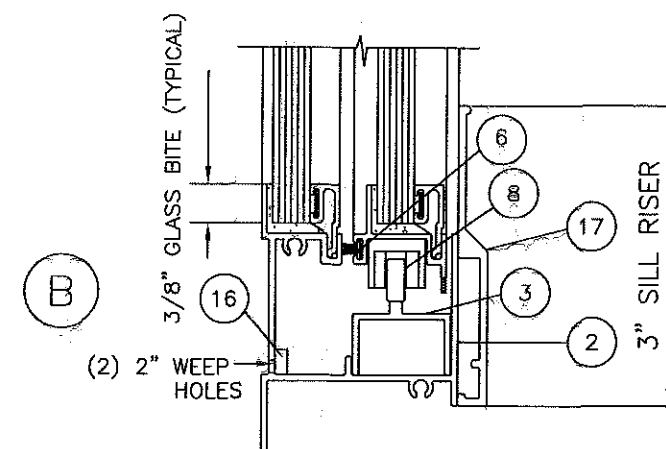
SHEET 2 OF 7



HORIZONTAL SECTION

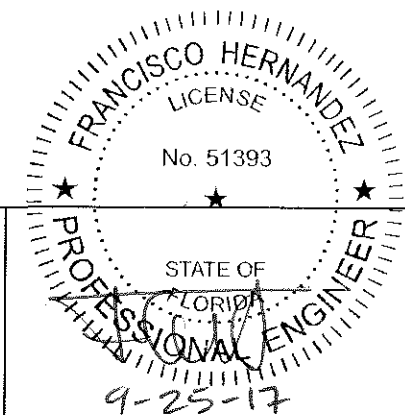


VERTICAL SECTION



VERTICAL SECTION
WITH SILL RISER

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1017.06
Expiration Date April 10, 2019
By *Manuel Perez*
Miami Trade Product Control



FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Sunshine Windows
Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)364-9952
Fax: (305)828-5118

SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (XO)
IMPACT RESISTANT GLASS

| No | DATE | REVISION |
|----|----------|---|
| 1 | 03-05-12 | NO CHANGE THIS SHEET |
| 2 | 11-18-14 | REVISION IN COMPLIANCE WITH FBC 5TH EDITION (2014) |
| 3 | 09-04-17 | REVISION IN COMPLIANCE WITH FBC 6TH EDITION (2017) |

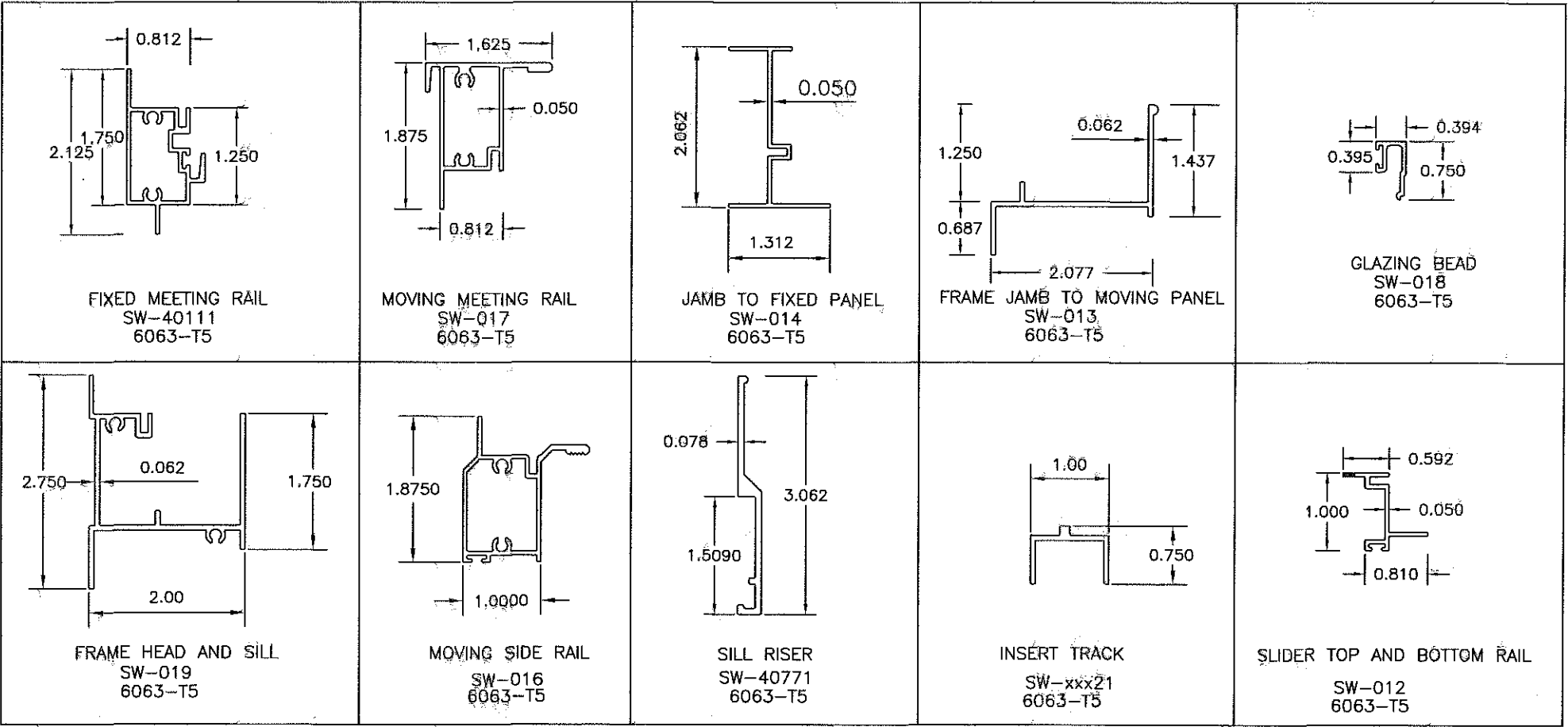
DRAWING No.
HS08-01
DATE: 03-14-08
SCALE: 1/2"=1"
SHEET 3 OF 7

MATERIAL LIST

| ITEM # | PART # | REQD. | DESCRIPTION | MATERIAL |
|--------|---------|---------|------------------------|---------------|
| 1 | SW-019 | 1 | FRAME HEAD | 6063-T5 |
| 2 | SW-019 | 1 | FRAME SILL | 6063-T5 |
| 3 | SWxxx21 | 1 | INSERT TRACK | 6063-T5 |
| 5 | SW-012 | 2 | SLIDER TOP/BOTTOM RAIL | 6063-T5 |
| 6 | SW3019 | AS REQD | FIN SEAL PILE | FELT |
| 8 | SW321W | 2 | WHEEL | BRASS |
| 9 | SW-017 | 1 | MOVING MEETING RAIL | 6063-T5 |
| 10 | SW40111 | 1 | FIXED MEETING RAIL | 6063-T5 |
| 11 | SW-AS | AS REQD | ASSEMBLY SCREWS | # 8 X 1" SMS. |
| 12 | SW-013 | 1 | JAMB TO MOVING PANEL | 6063-T5 |

MATERIAL LIST

| ITEM # | PART # | REQD. | DESCRIPTION | MATERIAL |
|--------|---------|---------|----------------------|---------------------|
| 13 | SW-016 | 1 | MOVING SIDE RAIL | 6063-T5 |
| 14 | SW3257 | AS REQD | WEATHER STRIP BULB | VINYL |
| 15 | SW-667 | AS REQD | LATCH | ZINC |
| 16 | SW-S10 | 2/SILL | RETICULATED FILTER | FOAM |
| 17 | SW40771 | 1 | SILL RISER | 6063-T5 |
| 18 | SW-014 | 1 | JAMB TO FIXED PANEL | 6063-T5 |
| 19 | - | AS REQD | SILICONE | PEC.-895 OR SIMILAR |
| 20 | SW-101 | AS REQD | IMPACT GLAZING BEAD | 6063-T6 |
| 21 | SW-STL | 1 | 3/8" X 3/4" FLAT BAR | STEEL |
| 22 | SW-AS | 4 | ASSEMBLY SCREWS | # 8 X 2 1/2" SMS. |



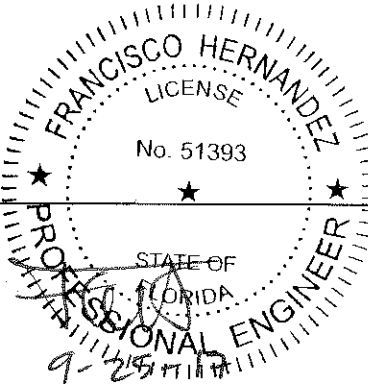
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SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (XO)
IMPACT RESISTANT GLASS

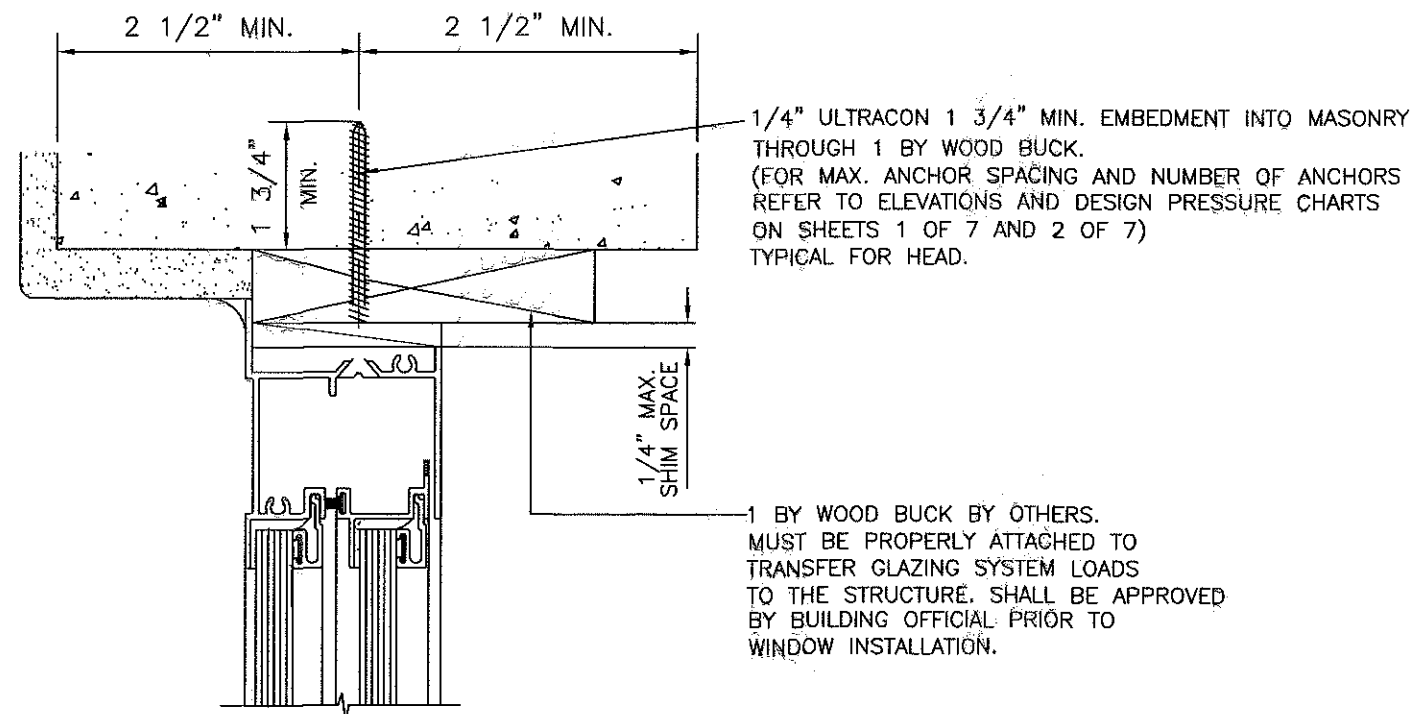
| NO | DATE | REVISION |
|----|----------|--|
| 1 | 03-05-12 | NO CHANGE THIS SHEET |
| 2 | 11-18-14 | REVISION IN COMPLIANCE WITH FBC 5TH EDITION (2014) |
| 3 | 09-04-17 | REVISION IN COMPLIANCE WITH FBC 6TH EDITION (2017) |

DRAWING No.
HS08-01
DATE: 03-14-08
SCALE: 1/2"=1"
SHEET 4 OF 7

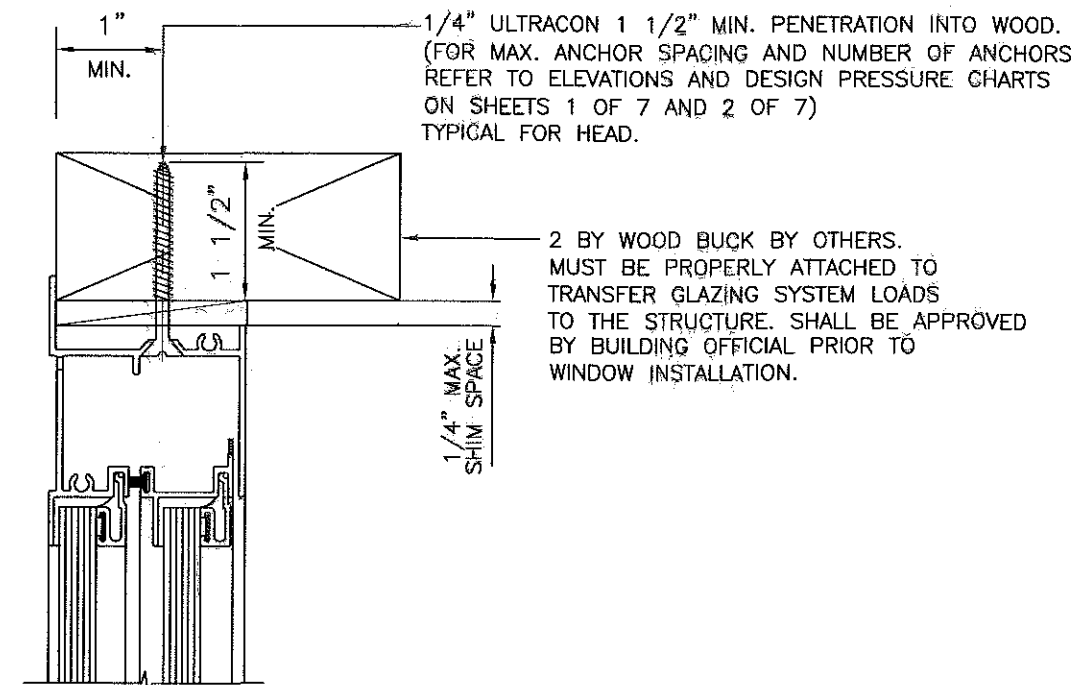
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1017-06
Expiration Date April 10, 2019
By: Manuel Perez
Miami Dade Product Control



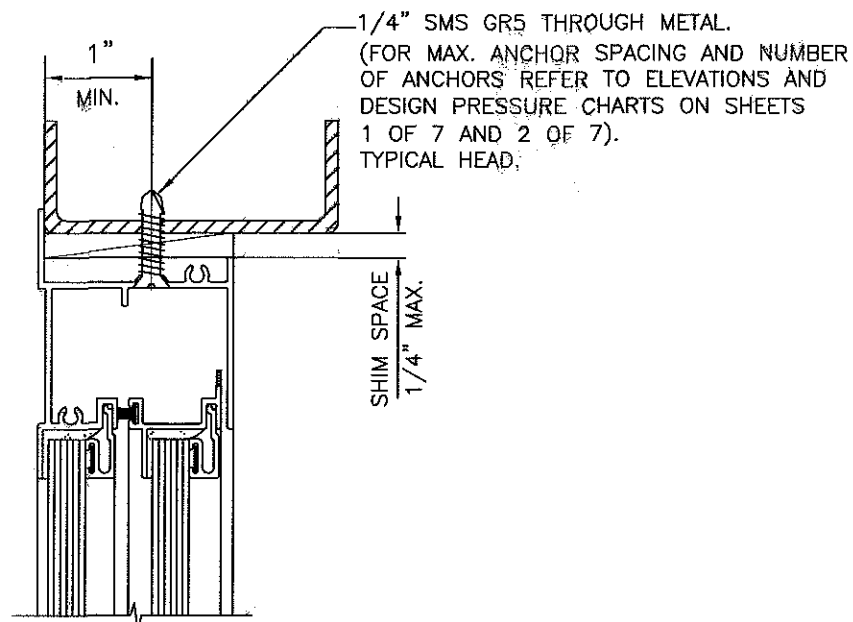
FRANCISCO HERNANDEZ
FLORIDA PE # 51393



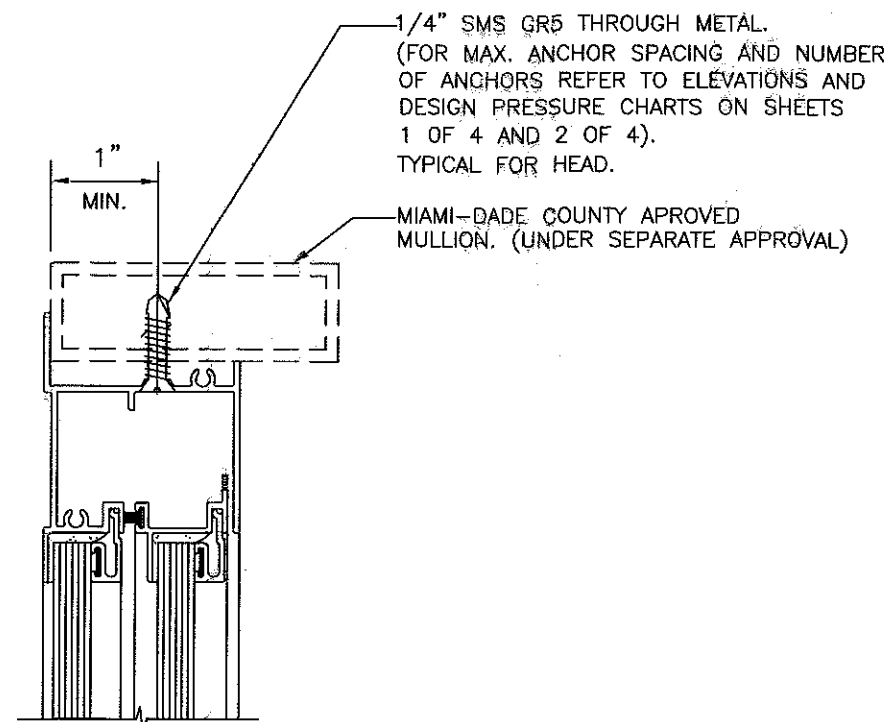
DETAIL A
ATTACHMENT TO MASONRY



DETAIL B
ATTACHMENT TO WOOD



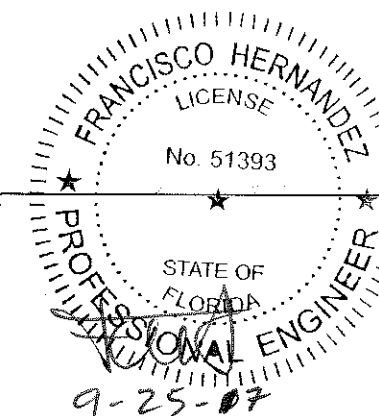
DETAIL C
ATTACHMENT TO METAL STRUCTURE
(STEEL OR ALUMI. 1/8" MIN. THICKNESS)



DETAIL C 1
ATTACHMENT TO MULLION

TYPICAL HEAD SECTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1017-06
Expiration Date: April 10, 2019
By: *Manuel Diaz*
Miami Dade Product Control



FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Sunshine Windows
Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)364-9952
Fax: (305)828-5118

SERIES 1650 ALUMINUM HORIZONTAL SLIDING WINDOW (XO) IMPACT RESISTANT GLASS

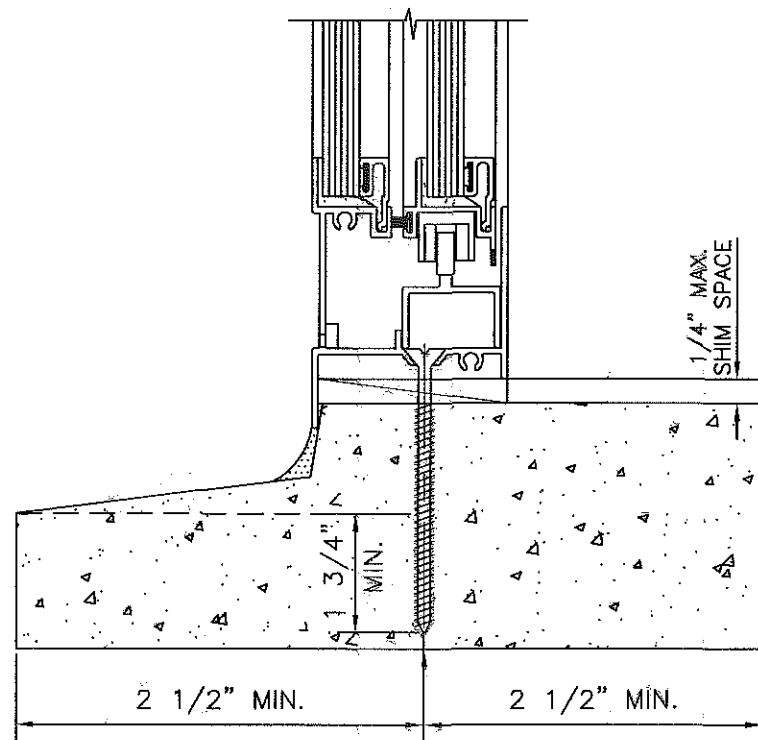
| NO | DATE | REVISION |
|----|----------|--|
| 1 | 03-05-12 | UPDATED FOR 2010 FBC |
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DRAWING No.
HS08-01

DATE: 03-14-08

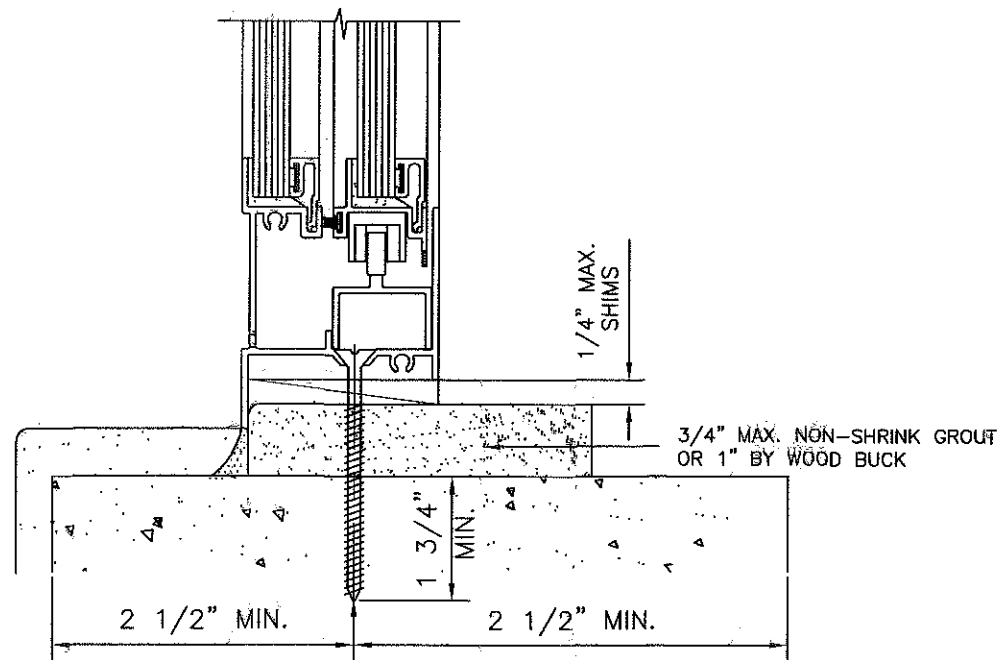
SCALE: 1/2"=1"

SHEET 5 OF 7



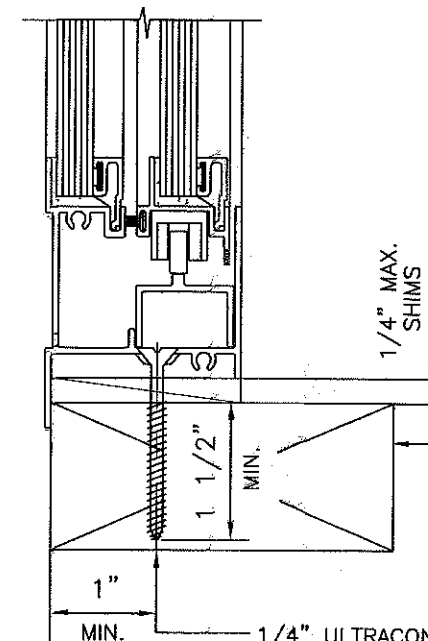
1/4" ULTRACON 1 3/4" MIN. EMBEDMENT INTO MASONRY (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURE CHARTS ON SHEETS 1 OF 7 AND 2 OF 7) TYPICAL FOR SILL ONLY.

DETAIL D
ATTACHMENT TO PRE-CAST SILL



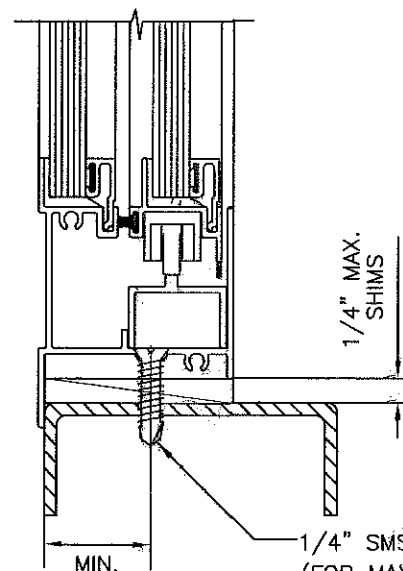
1/4" ULTRACON 1 3/4" MIN. EMBEDMENT INTO MASONRY THROUGH 1" BY WOOD BUCK OR NON-SHRINK NON-METALLIC GROUT (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURE CHARTS ON SHEETS 1 OF 7 AND 2 OF 7). TYPICAL FOR SILL ONLY.

DETAIL E
ATTACHMENT TO MASONRY



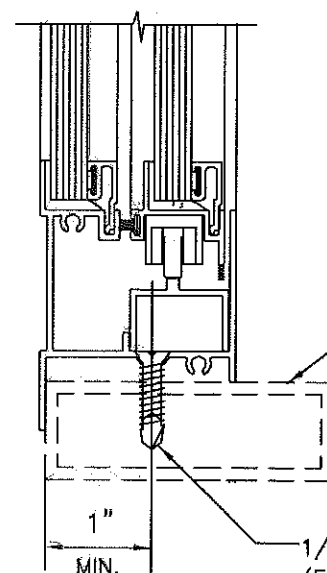
1/4" ULTRACON 1 1/2" MIN. PENETRATION INTO WOOD. (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURE CHARTS ON SHEETS 1 OF 7 AND 2 OF 7). TYPICAL FOR SILL.

DETAIL F
ATTACHMENT TO WOOD



1/4" SMS GR5 THROUGH METAL. (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURE CHARTS ON SHEETS 1 OF 7 AND 2 OF 7). TYPICAL FOR SILL.

DETAIL G
ATTACHMENT TO METAL STRUCTURE
(STEEL OR ALUM. 1/8" MIN. THICKNESS)



MIAMI-DADE COUNTY APPROVED MULLION. (UNDER SEPARATE APPROVAL)

1/4" SMS GR5 THROUGH METAL. (FOR MAX. ANCHOR SPACING AND NUMBER OF ANCHORS REFER TO ELEVATIONS AND DESIGN PRESSURE CHARTS ON SHEETS 1 OF 7 AND 2 OF 7). TYPICAL FOR SILL.

DETAIL G1
ATTACHMENT TO MULLION
(STEEL OR ALUM. 1/8" MIN. THICKNESS)

TYPICAL SILL SECTIONS

Sunshine Windows
Manufacturing, Inc.

1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)364-9952
Fax: (305)828-5118

SERIES 1650 ALUMINUM HORIZONTAL SLIDING WINDOW (XO) IMPACT RESISTANT GLASS

| No | DATE | REVISION |
|----|----------|--|
| 1 | 03-05-12 | UPDATED FOR 2010 FBC |
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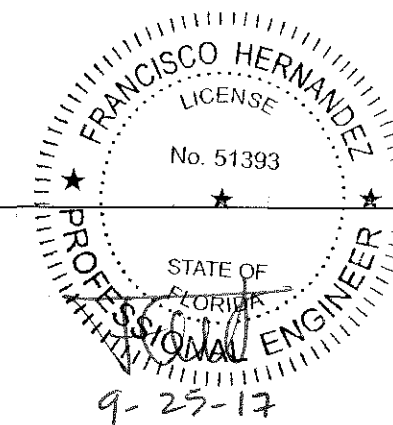
DRAWING No.
HS08-01

DATE: 03-14-08

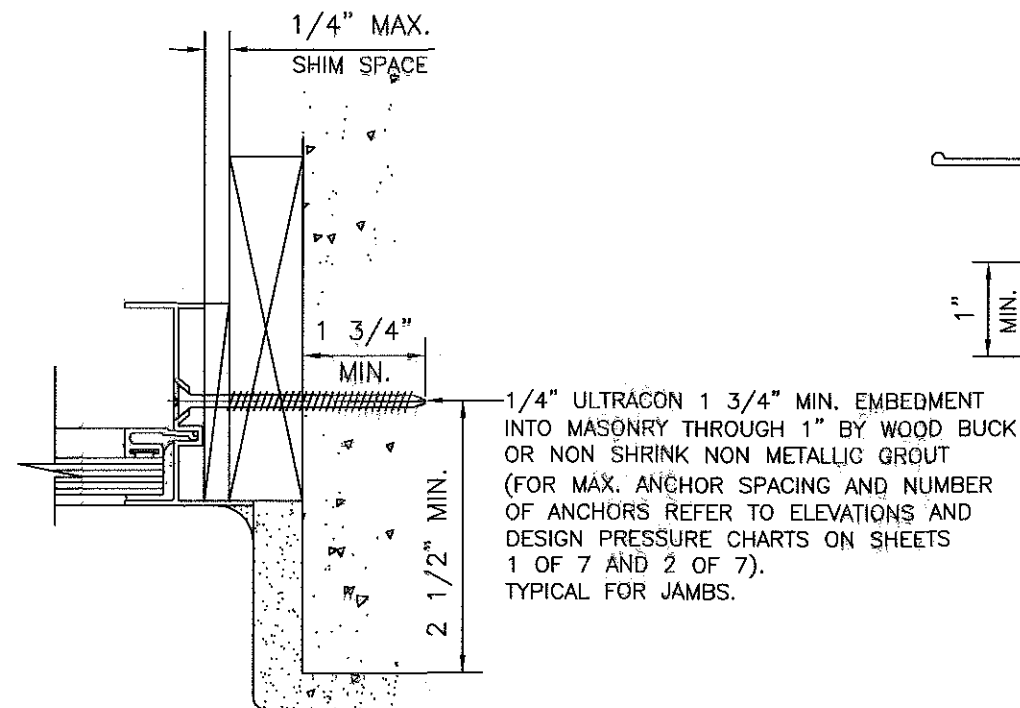
SCALE: 1/2"=1"

SHEET 6 OF 7

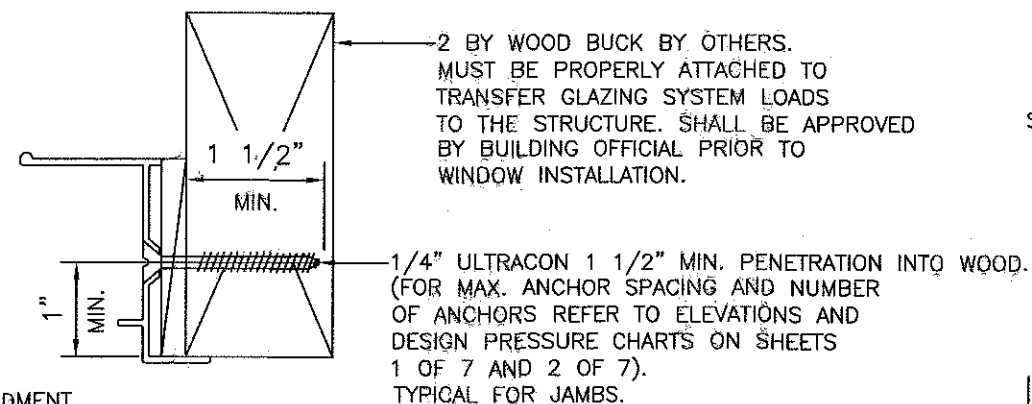
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1077.06
Expiration Date April 10, 2019
By *Manuel Perez*
Miami/Dade Product Control



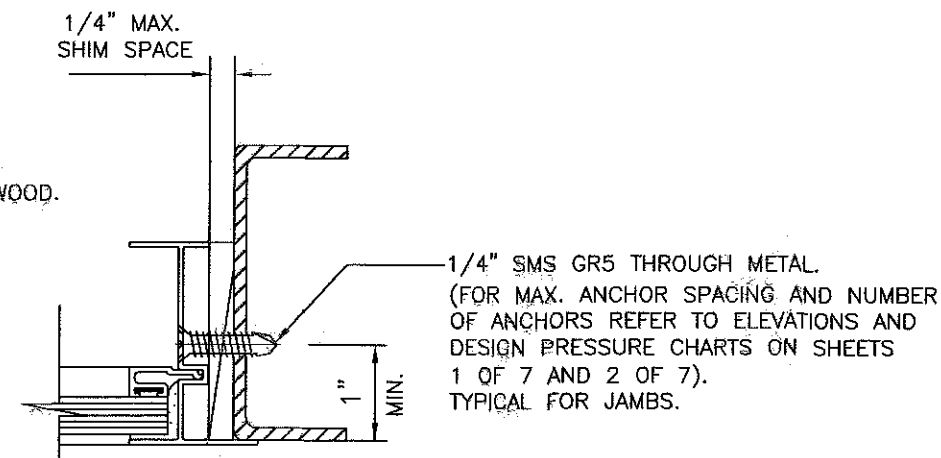
FRANCISCO HERNANDEZ
FLORIDA PE # 51393



DETAIL H
ATTACHMENT TO MASONRY

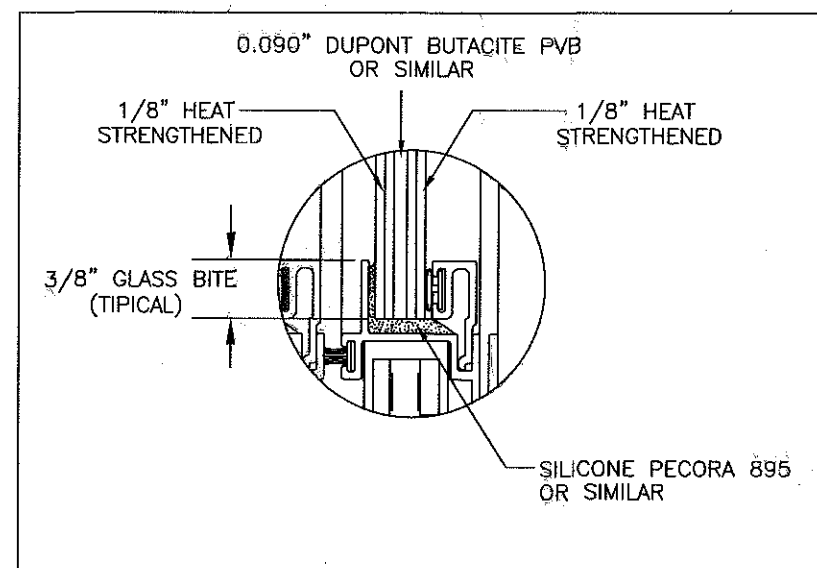


DETAIL I
ATTACHMENT TO WOOD

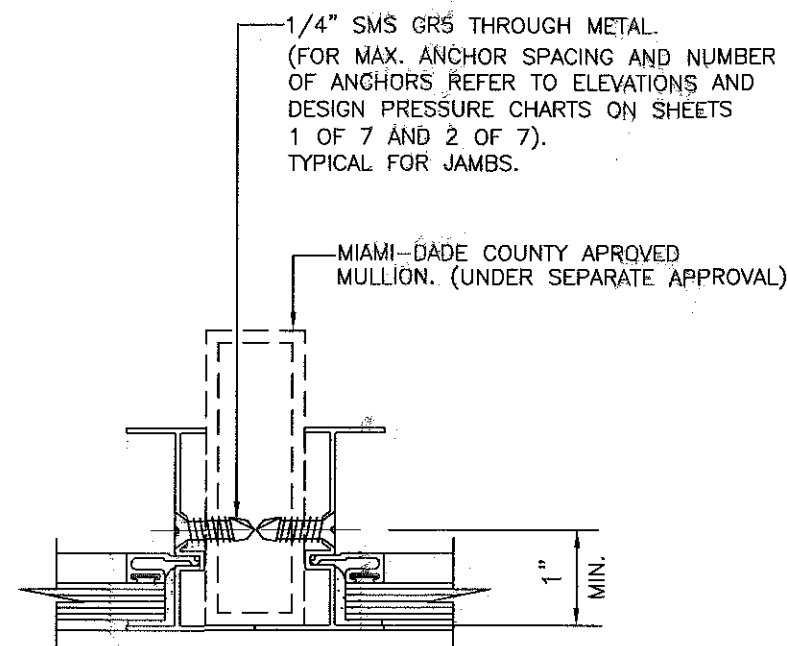


DETAIL J
ATTACHMENT TO METAL STRUCTURE
(STEEL OR ALUM: 1/8" MIN. THICKNESS)

GLAZING DETAIL



GLAZING: 0.340" OVERALL LAMINATED GLASS USING TWO LITES OF 0.125" HEAT STRENGTHENED GLASS WITH A 0.090" INTERLAYER FILM DUPONT BUTACITE PVB, BETWEEN THE TWO LITES OF GLASS. LAMINATED BY TECNOLASS OR SIMILAR



ATTACHMENT TO MULLIONS DETAIL

TYPICAL JAMB SECTIONS

Sunshine Windows
Manufacturing, Inc.

1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305)364-9952
Fax: (305)828-5118

SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (XO)
IMPACT RESISTANT GLASS

| NO | DATE | REVISION |
|----|----------|--|
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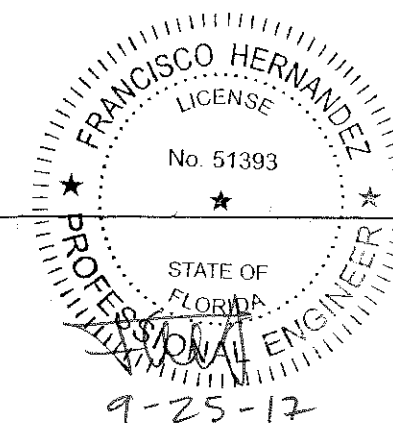
DRAWING No.
HS08-01

DATE: 03-14-08

SCALE: 1/2"=1"

SHEET 7 OF 7

PRODUCT REVISED
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Miami/Dade Product Control



FRANCISCO HERNANDEZ
FLORIDA PE # 51393